

208220" 9E95800T

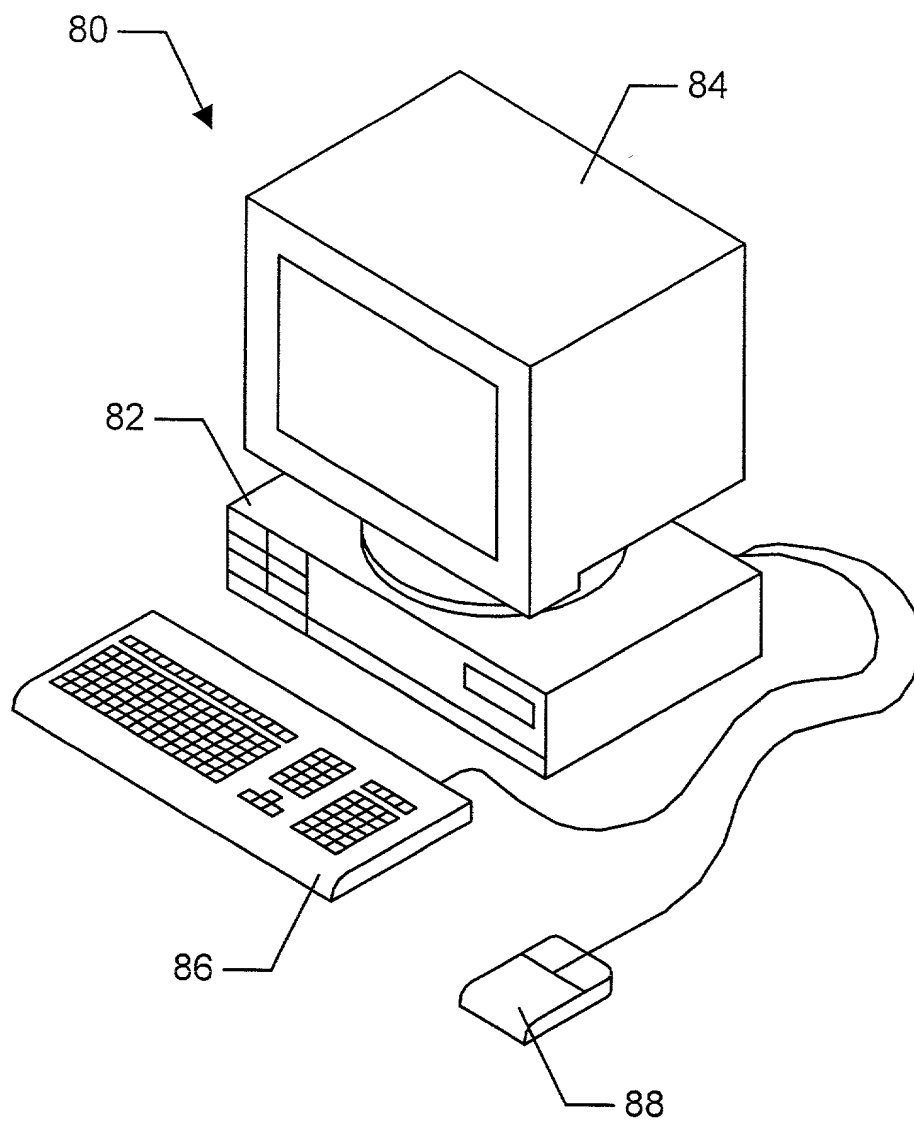


FIG. 1

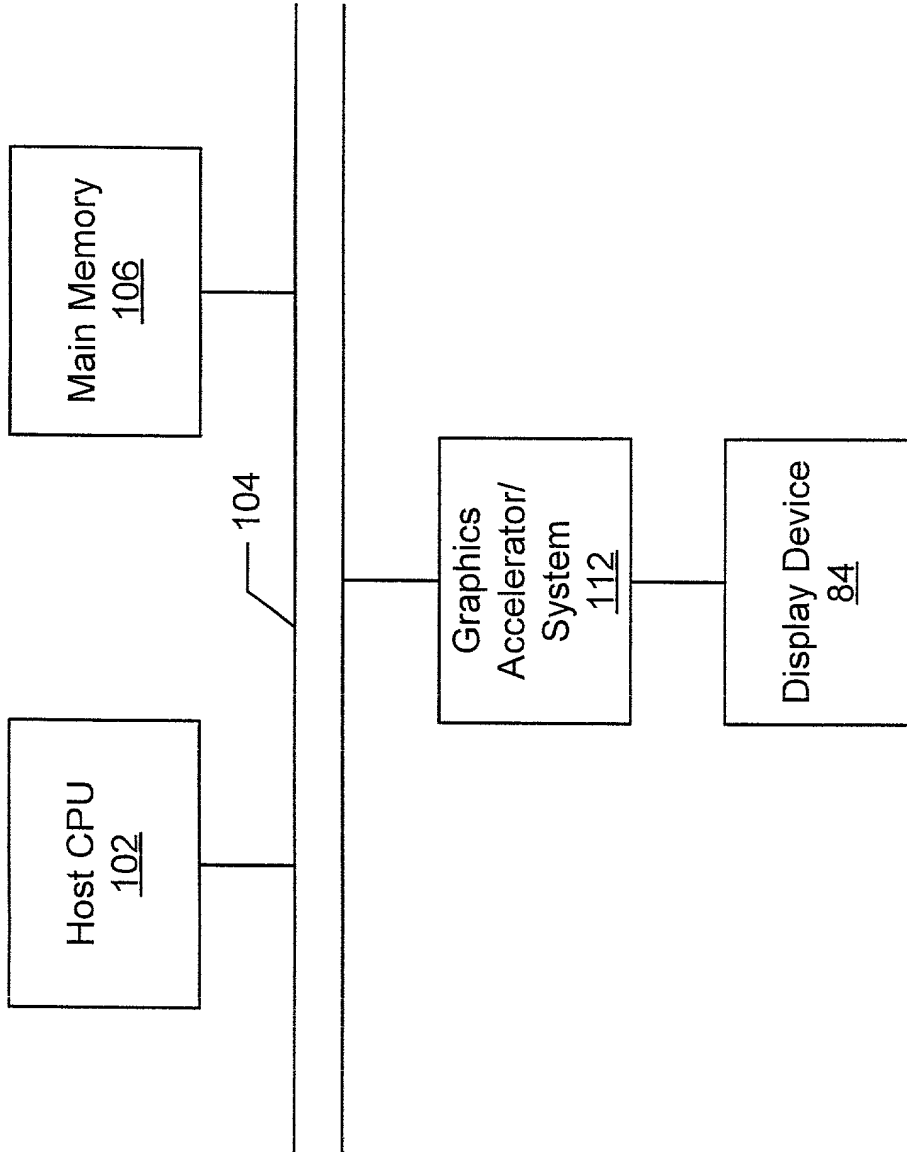


FIG. 2

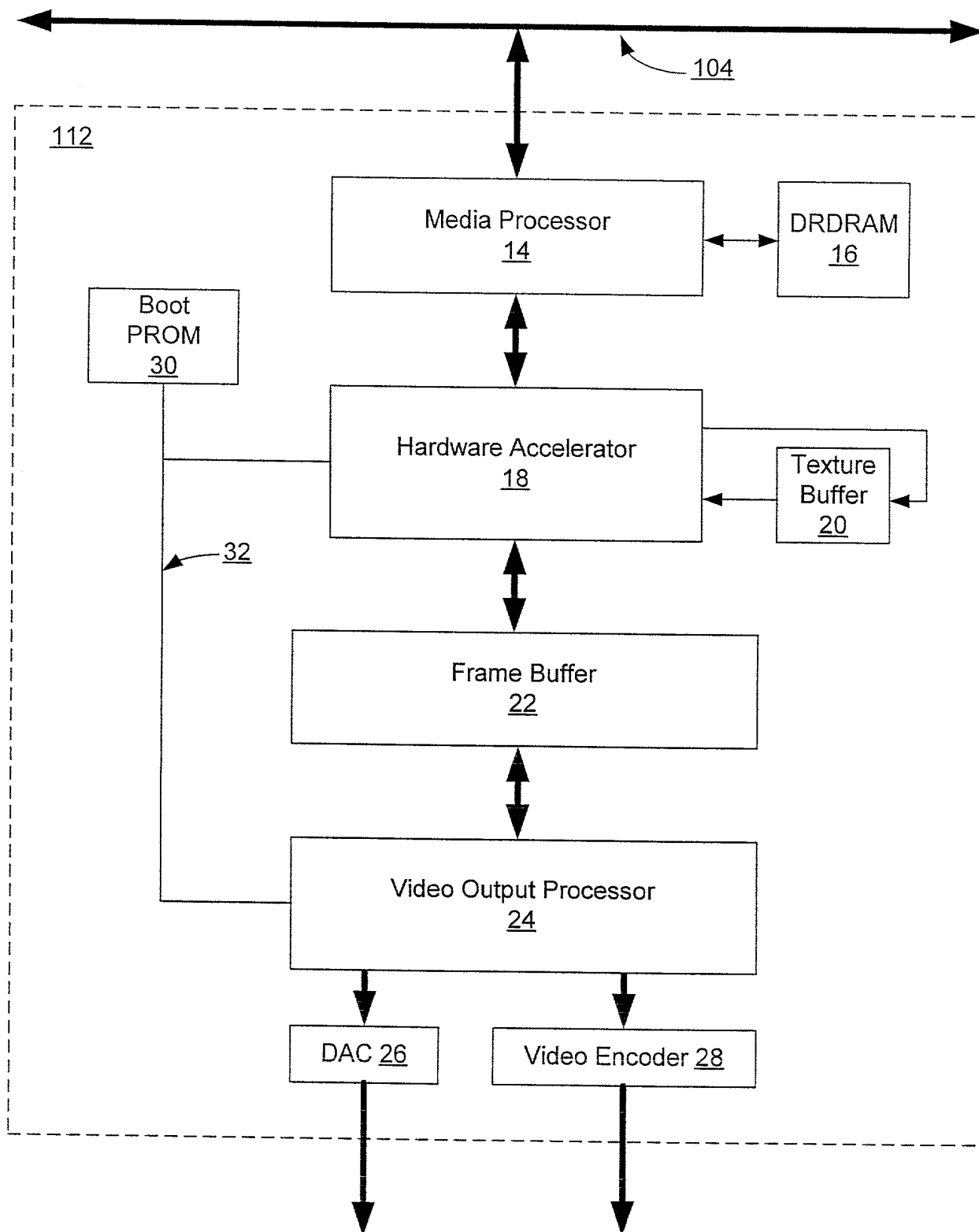


FIG. 3

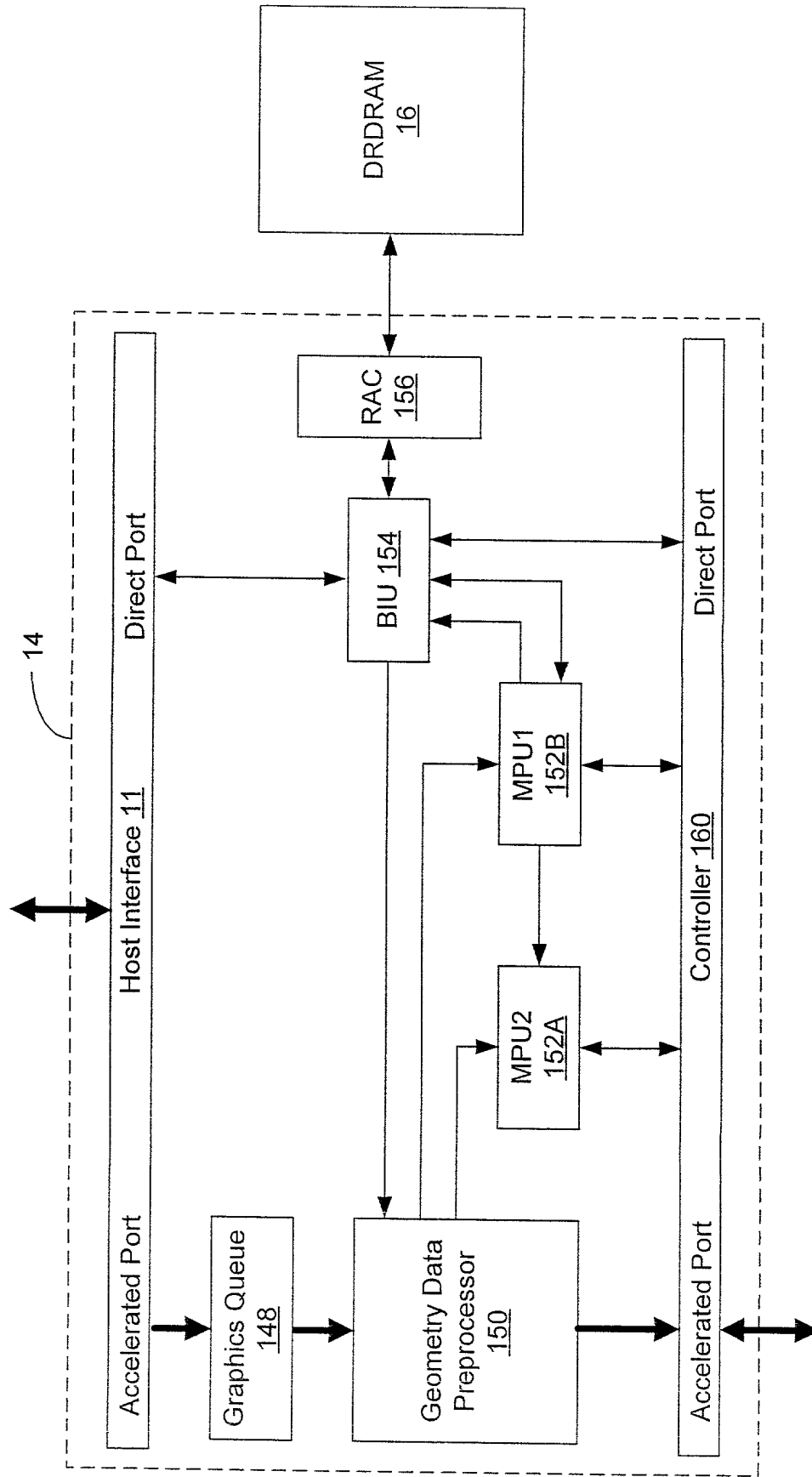


FIG. 4

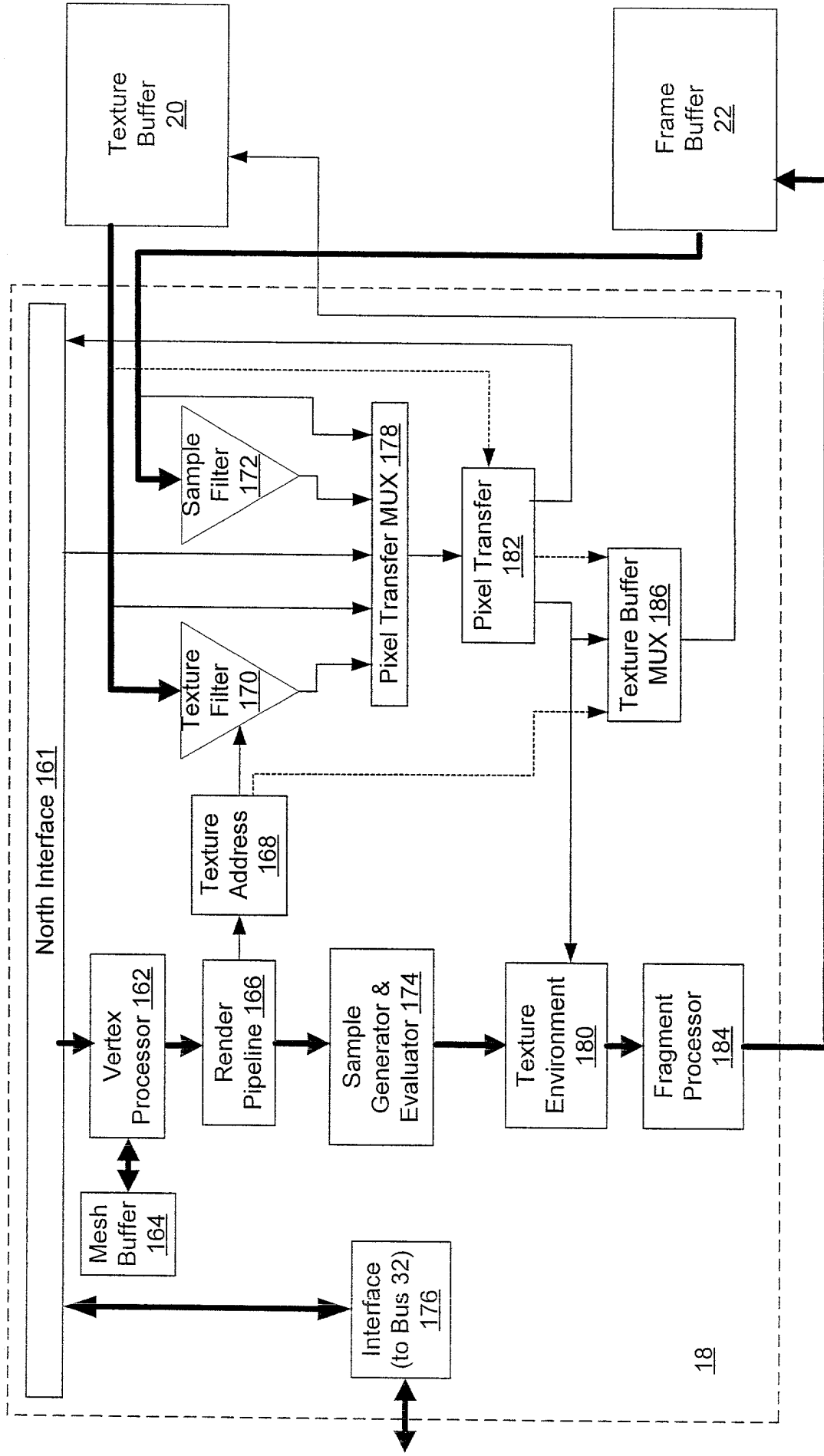


FIG. 5

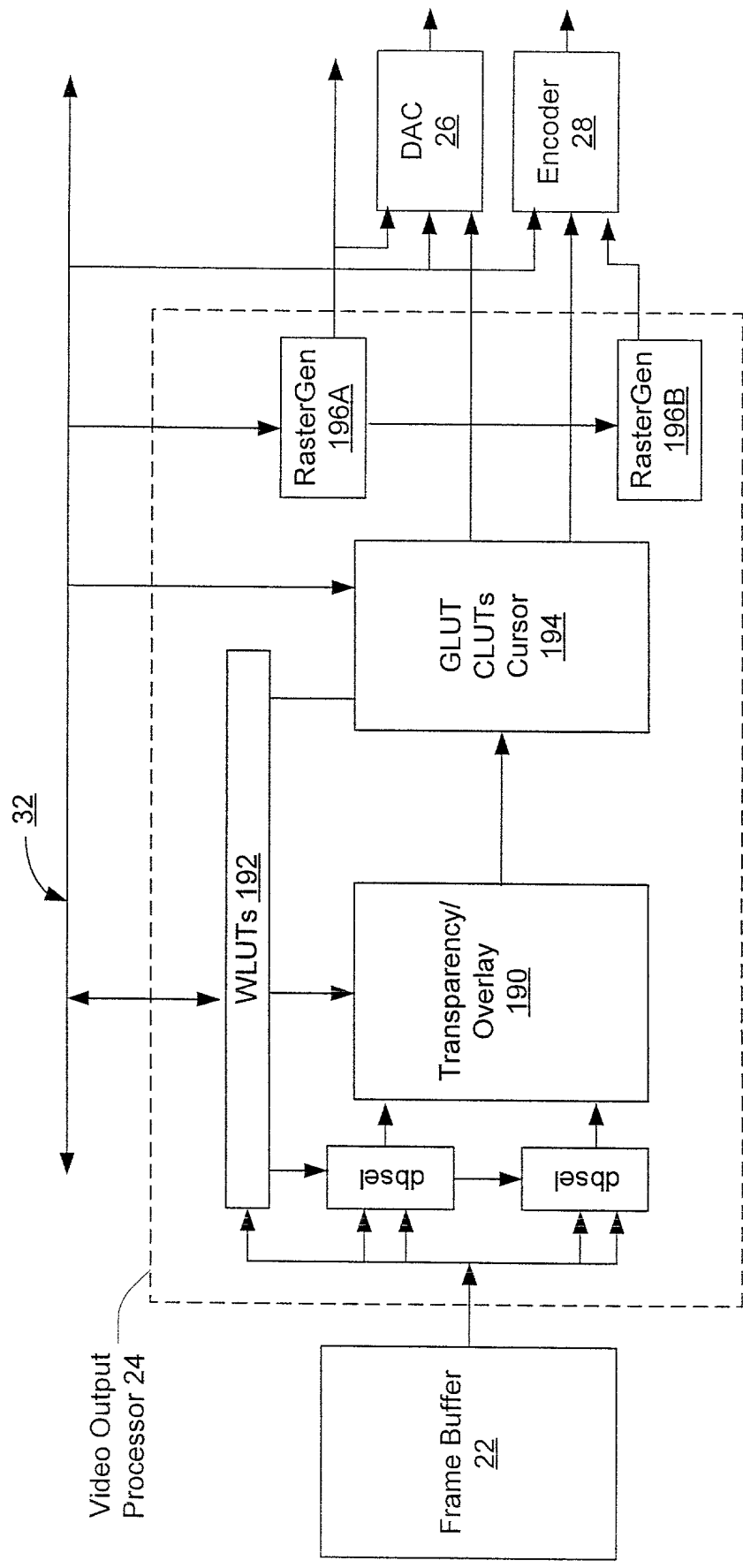


FIG. 6

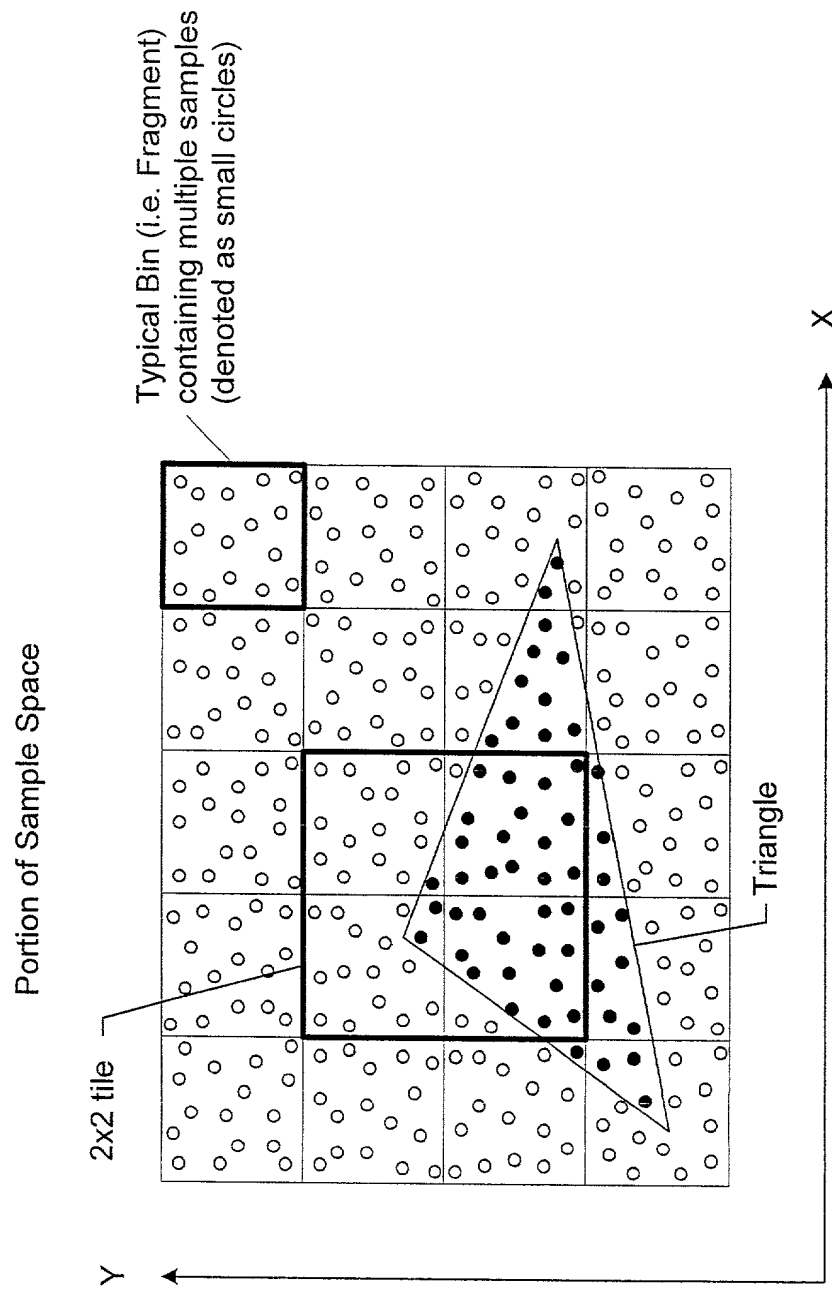


Fig. 7

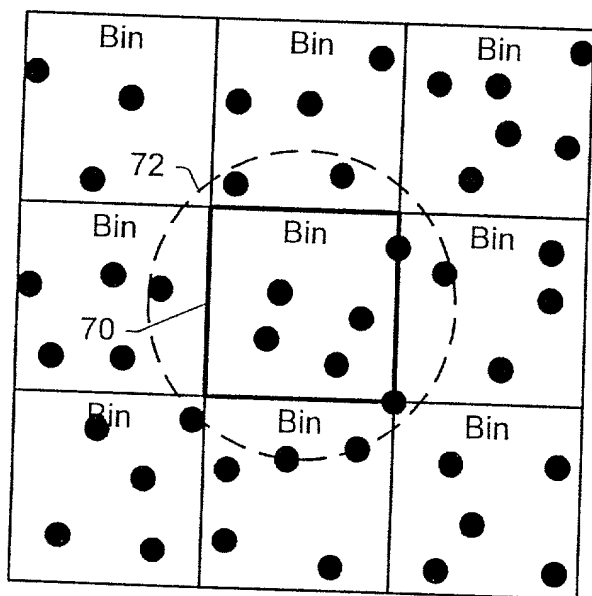


Fig. 8

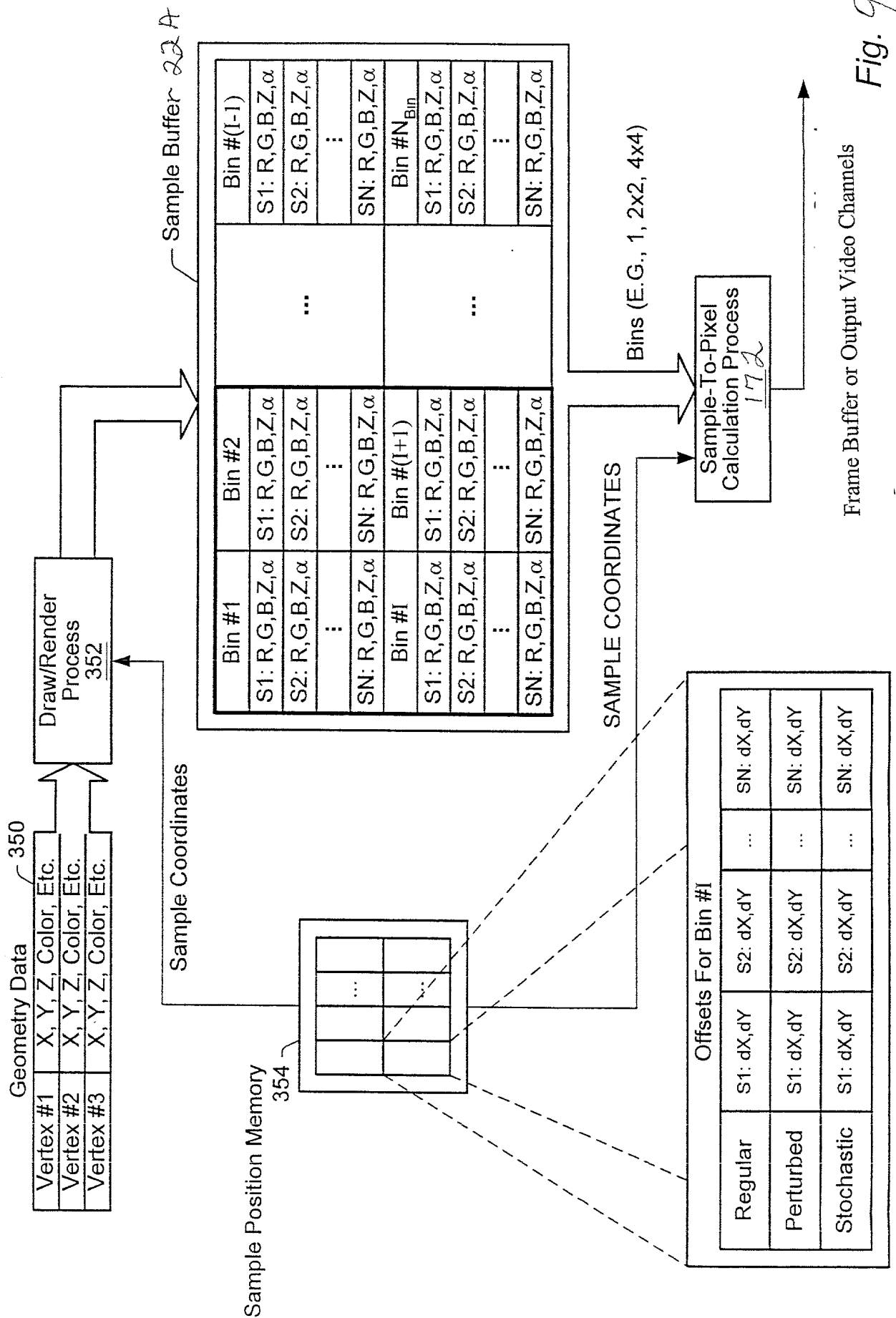


Fig. 9

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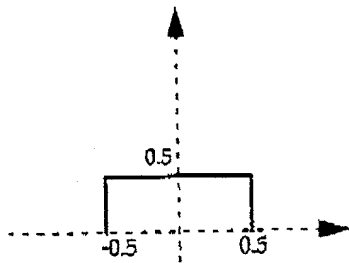


Figure 10A

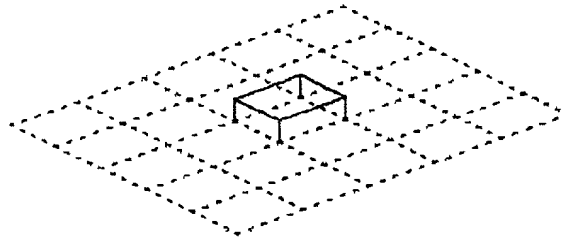
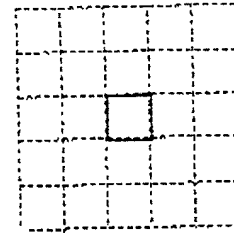


Figure 10B



filter base

Figure 10C

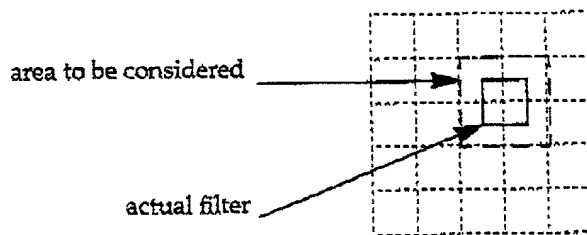
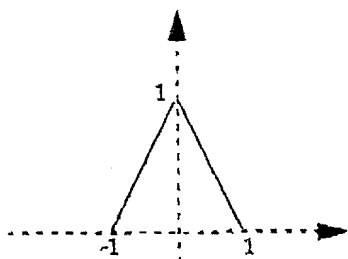
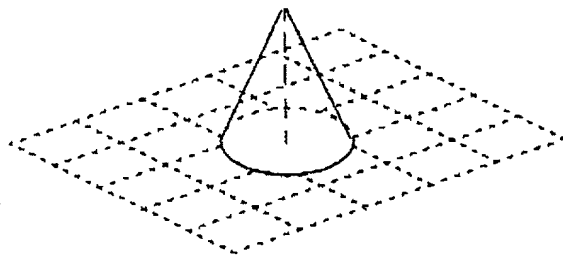


Figure 10D

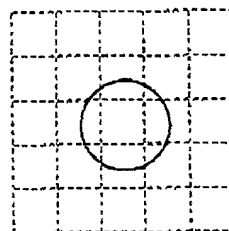
208220 9E95800T



11A



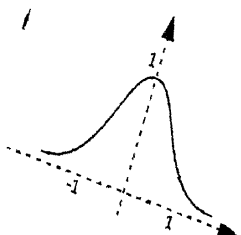
11B



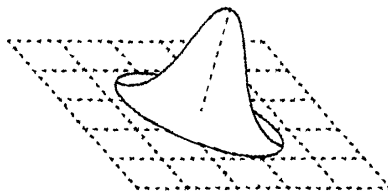
filter base

11C

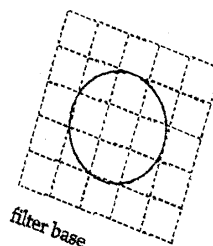
208220-9E95200T



12A

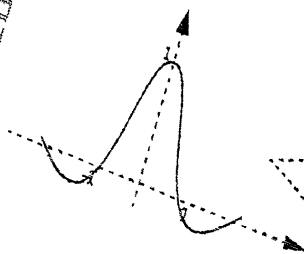


12B

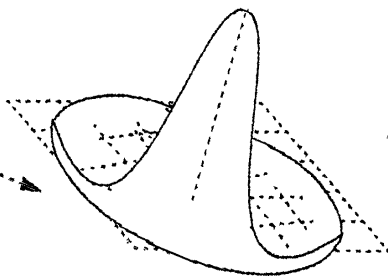


filter base

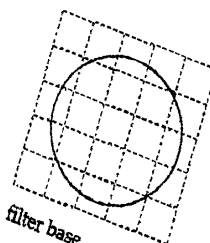
12C



13A



13B



filter base

13C

208220" 955800T

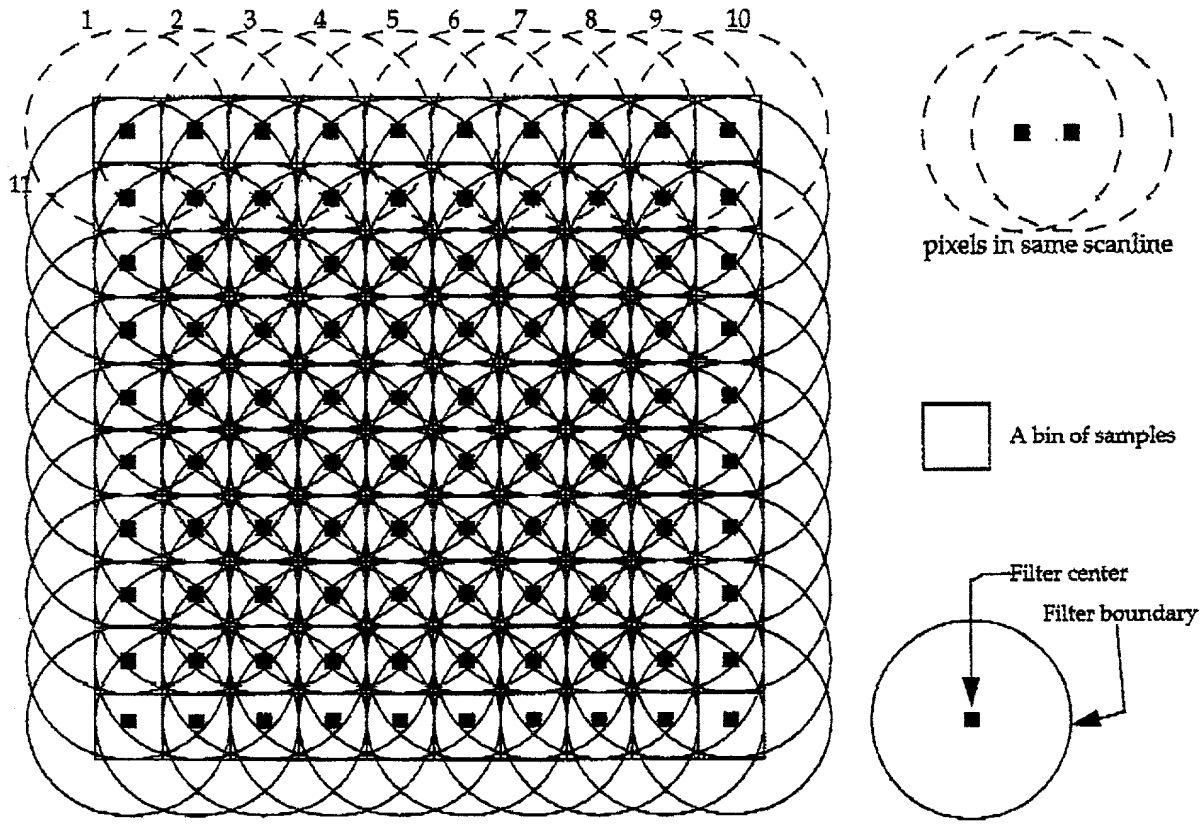
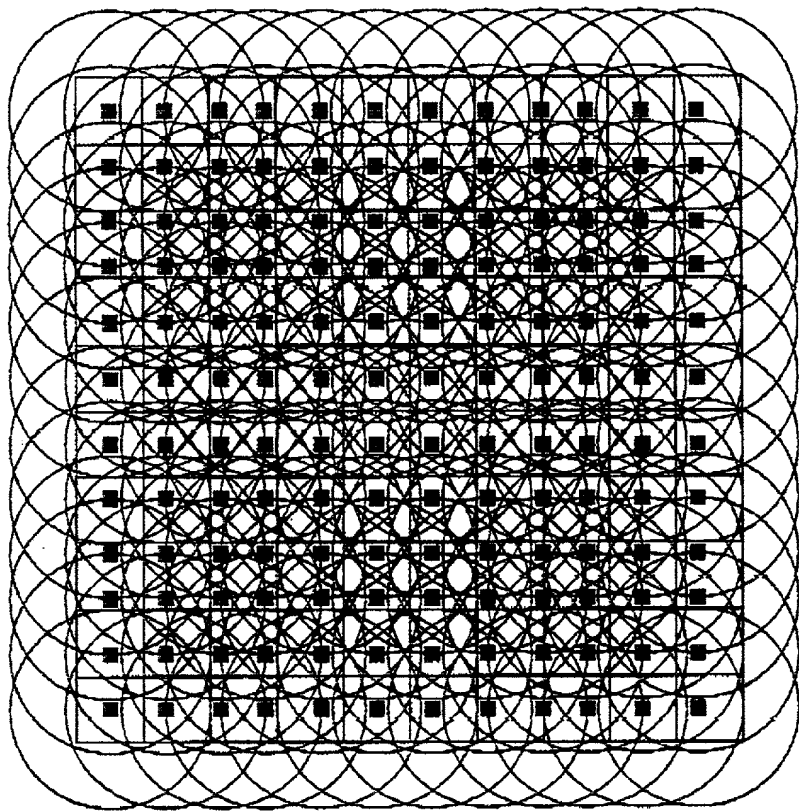



Figure 14



 A bin of samples

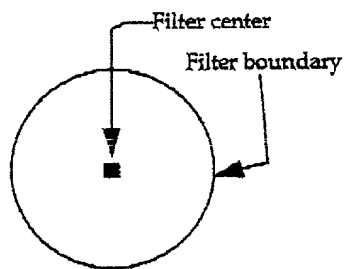
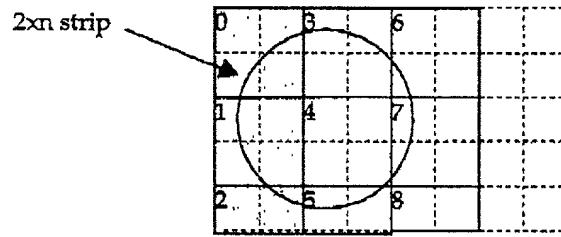
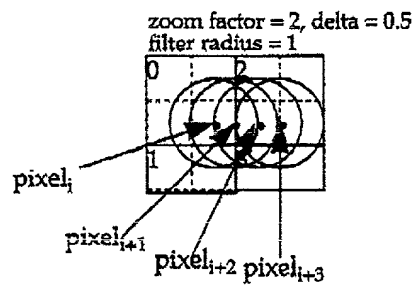


Fig 15

10085636 022802

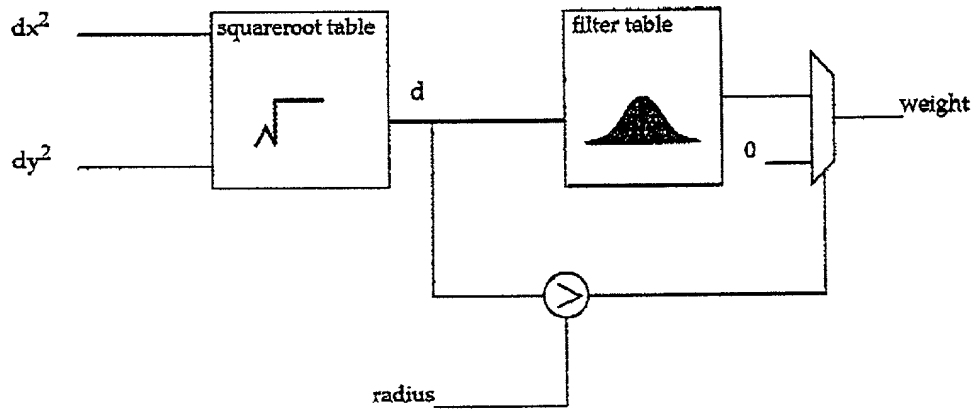


16



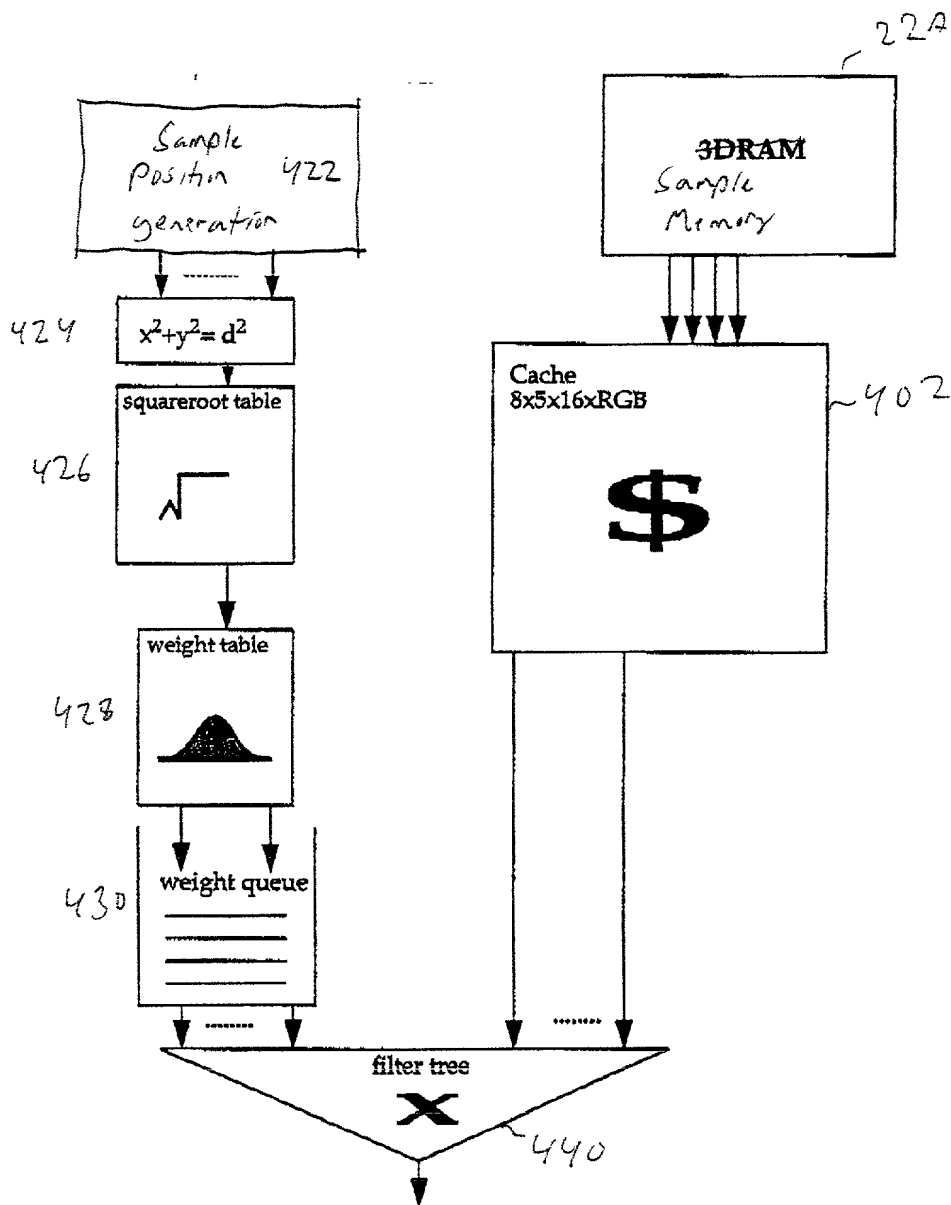
17

10085636.022802

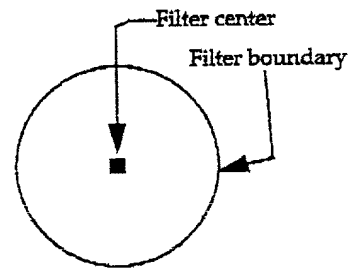
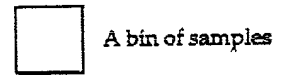
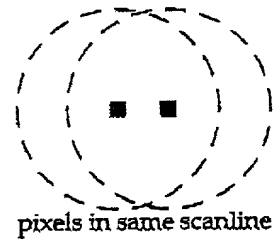
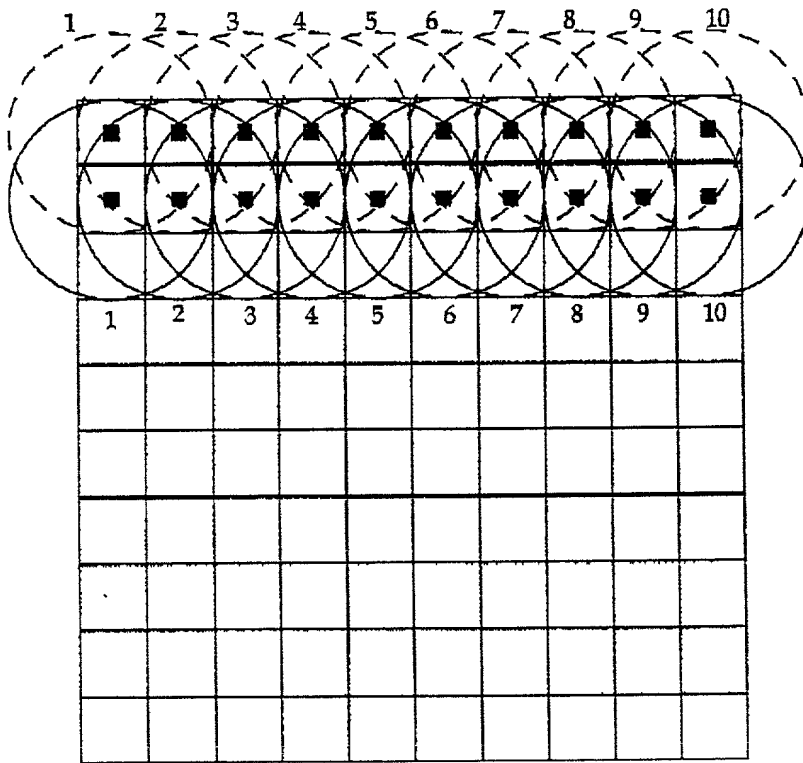


18

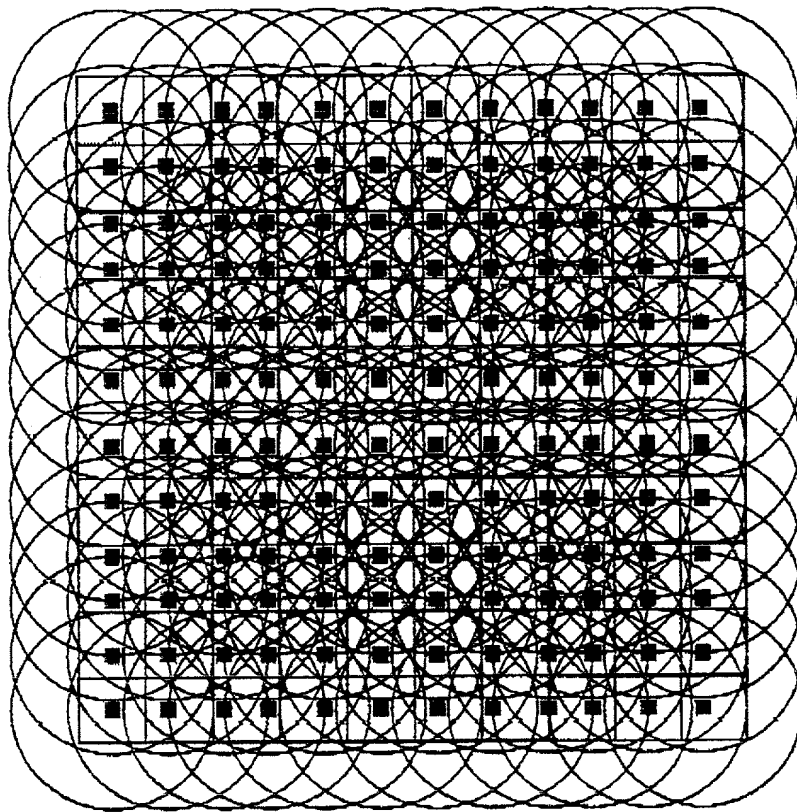
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10085536.022802

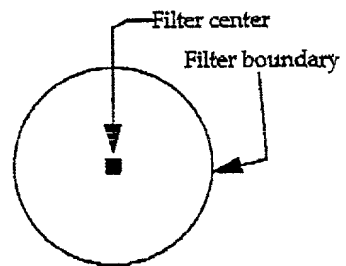


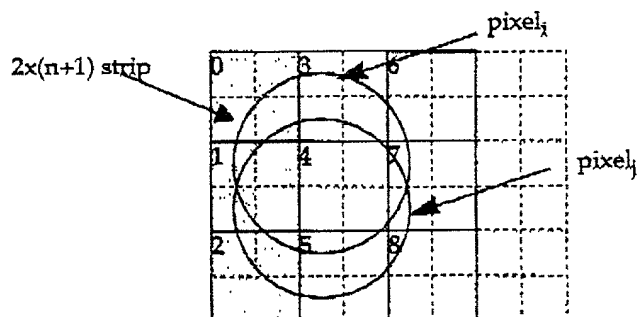
208220" 9E958001



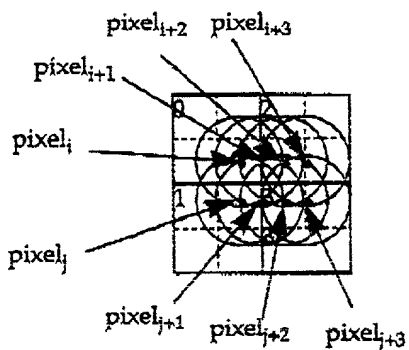
21

 A bin of samples



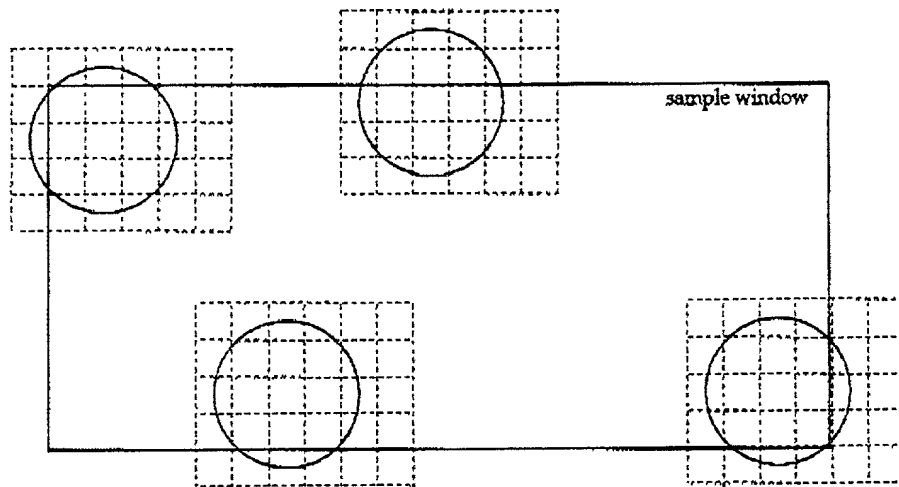


22



zoom factor = 2, delta = 0.5
filter radius = 1

23



208220" 9E95800T

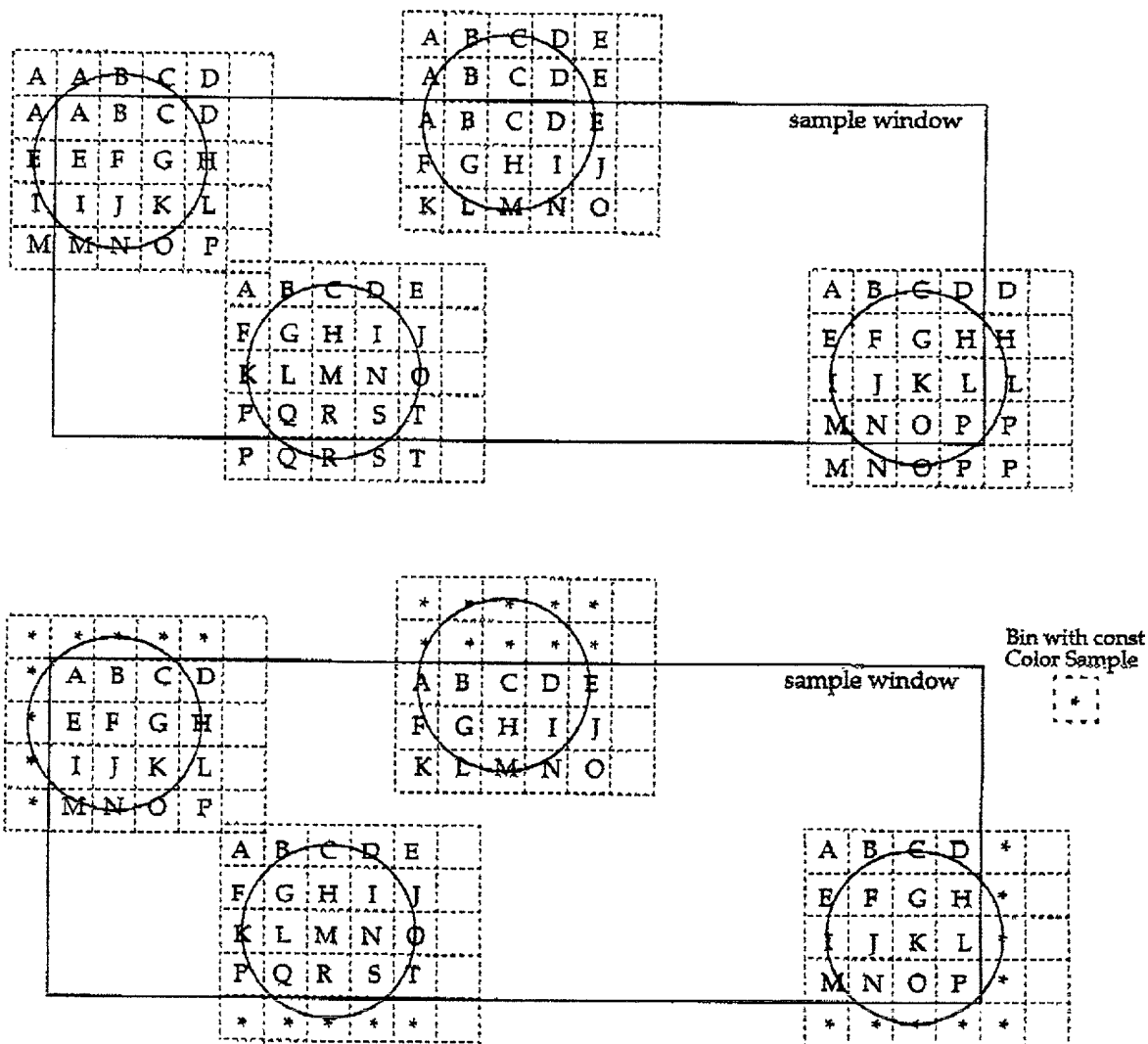
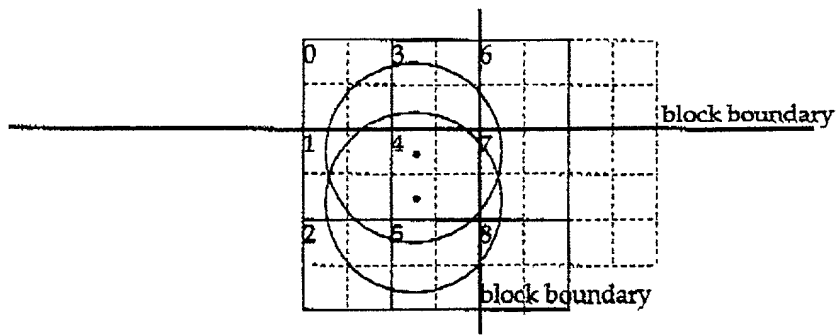
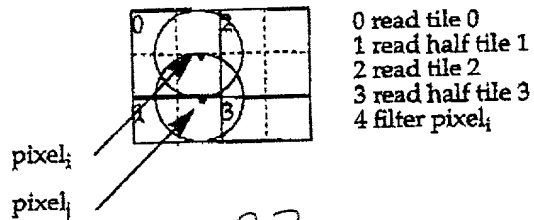


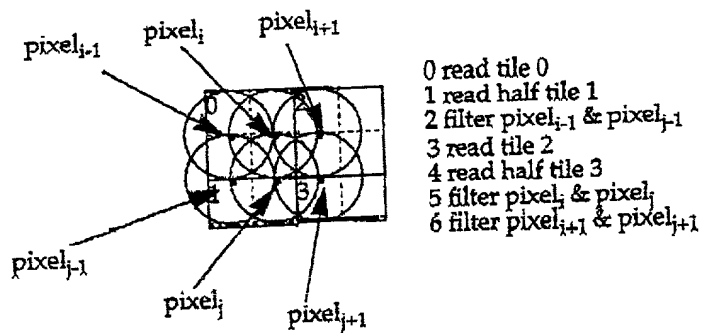
Figure 25



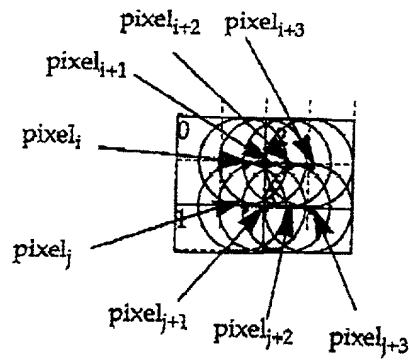
26



27



28



- 0 read tile 0
- 1 read half tile 1
- 2 read tile 2
- 3 read half tile 3
- 4 filter pixel_i & pixel_j
- 5 filter pixel_{i+1} & pixel_{j+1}
- 6 filter pixel_{i+2} & pixel_{j+2}
- 7 filter pixel_{i+3} & pixel_{j+3}

29

For Non-Buddy Mode:

binInlv [1:0]	sample[1:0]			
	0	1	2	3
0	a	b	c	d
1	c	d	a	b
2	d	c	b	a
3	b	a	d	c

where a, b, c, d identify different
interleave bus to 3DRAM

For Buddy Mode:

binInlv [1:0]	sample[2:0]							
	0	1	2	3	4	5	6	7
0	a	a	b	b	c	c	d	d
1	c	c	d	d	a	a	b	b
2	d	d	c	c	b	b	a	a
3	b	b	a	a	d	d	c	c

where a, b, c, d identify different
interleave bus to 3DRAM

— Figure 30

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208220" 9E95800T



A full tile from SW



SD16 Mapping:

binInlv [1:0]	sample															
	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
0	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d
1	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b
2	d	c	b	a	d	c	b	a	d	c	b	a	d	c	b	a
3	b	a	d	c	b	a	d	c	b	a	d	c	b	a	d	c



16 sample tiles from SG to Fragment Pipe



A full tile from SW

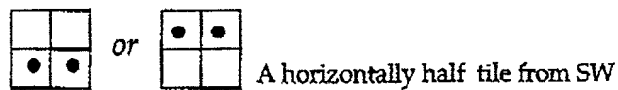


SD16B Mapping:

binInlv [1:0]	sample															
	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
0	a	a	b	b	c	c	d	d	a	a	b	b	c	c	d	d
1	c	c	d	d	a	a	b	b	c	c	d	d	a	a	b	b
2	d	d	c	c	b	b	a	a	d	d	c	c	b	b	a	a
3	b	b	a	a	d	d	c	c	b	b	a	a	d	d	c	c



16 sample tiles from SG to Fragment Pipe

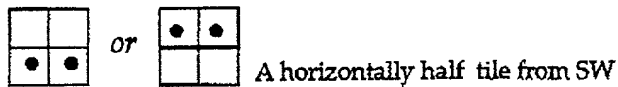


SD16 Mapping:

binInlv [1:0]	sample															
	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
0	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d
1	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b
2	d	c	b	a	d	c	b	a	d	c	b	a	d	c	b	a
3	b	a	d	c	b	a	d	c	b	a	d	c	b	a	d	c



8 sample tiles from SG to Fragment Pipe



SD16B Mapping:

binInlv [1:0]	sample															
	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
0	a	a	b	b	c	c	d	d	a	a	b	b	c	c	d	d
1	c	c	d	d	a	a	b	b	c	c	d	d	a	a	b	b
2	d	d	c	c	b	b	a	a	d	d	c	c	b	b	a	a
3	b	b	a	a	d	d	c	c	b	b	a	a	d	d	c	c



8 sample tiles from SG to Fragment Pipe

208220" 9E95800T

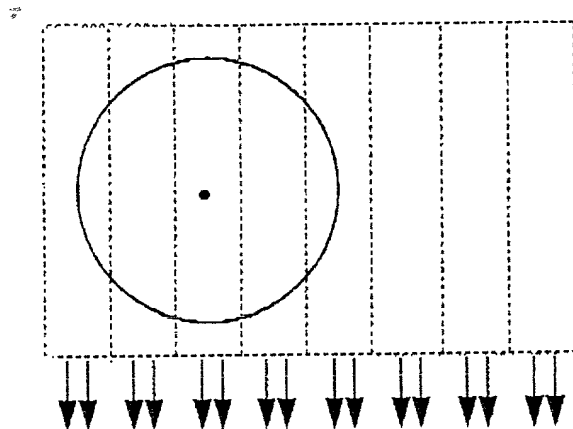
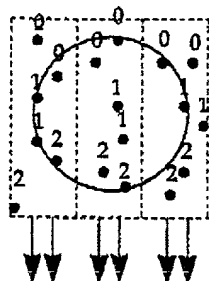
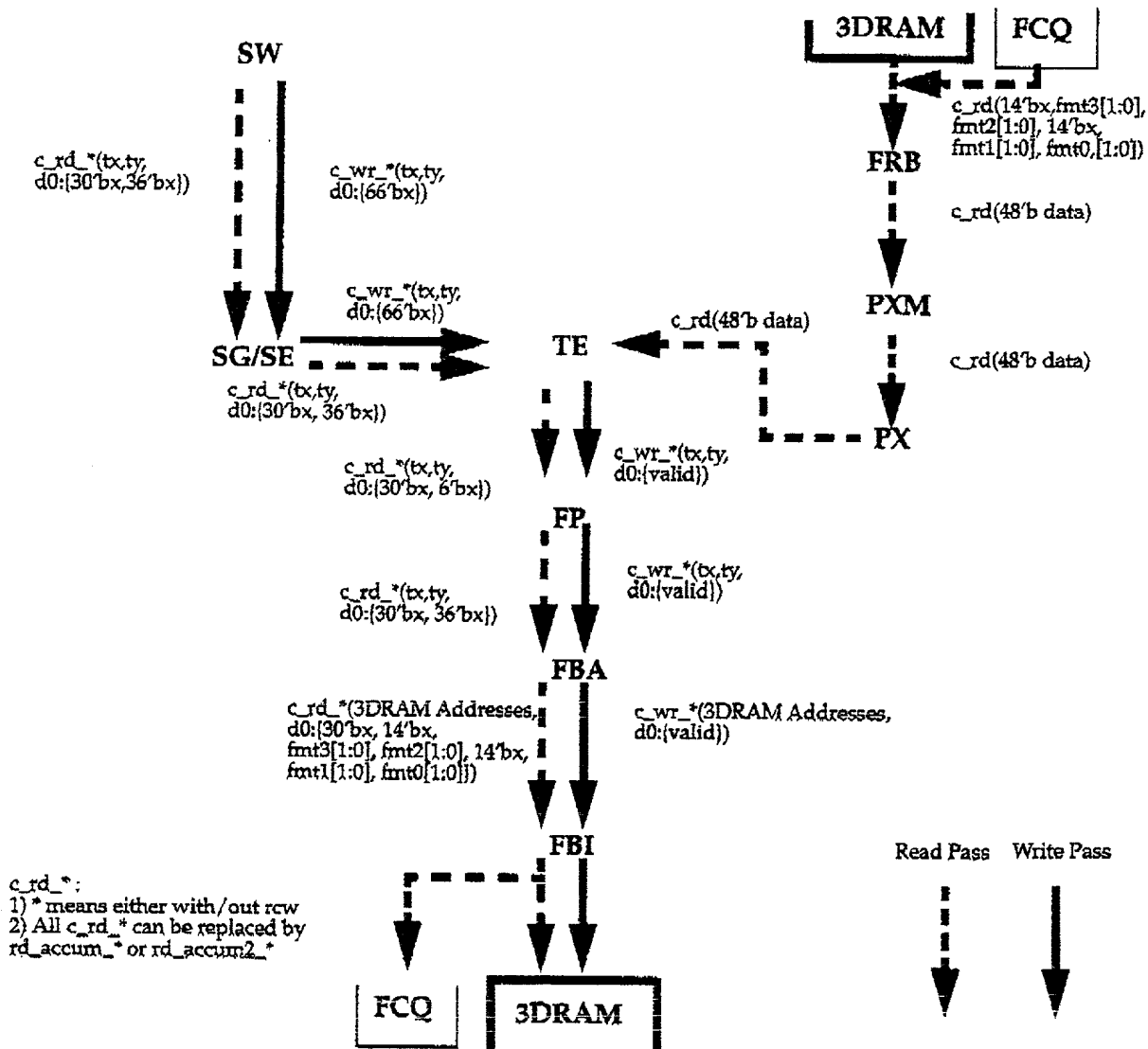


Fig 33

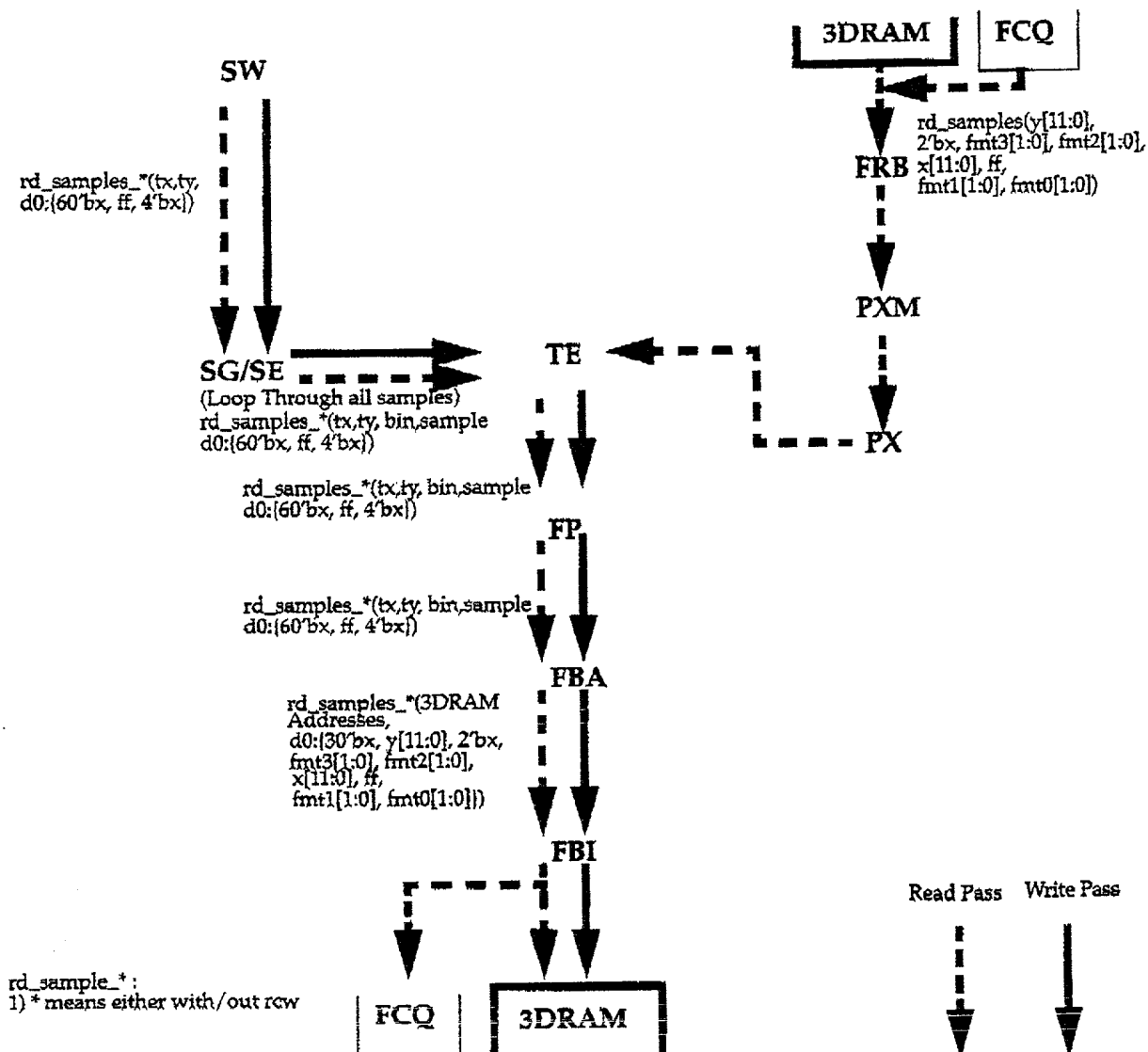


• sample

Fig 34



```
rd_samples_*(tx,ty,  
d0:{60'bx, ff, 4'bx})
```



208220 9E95B00F

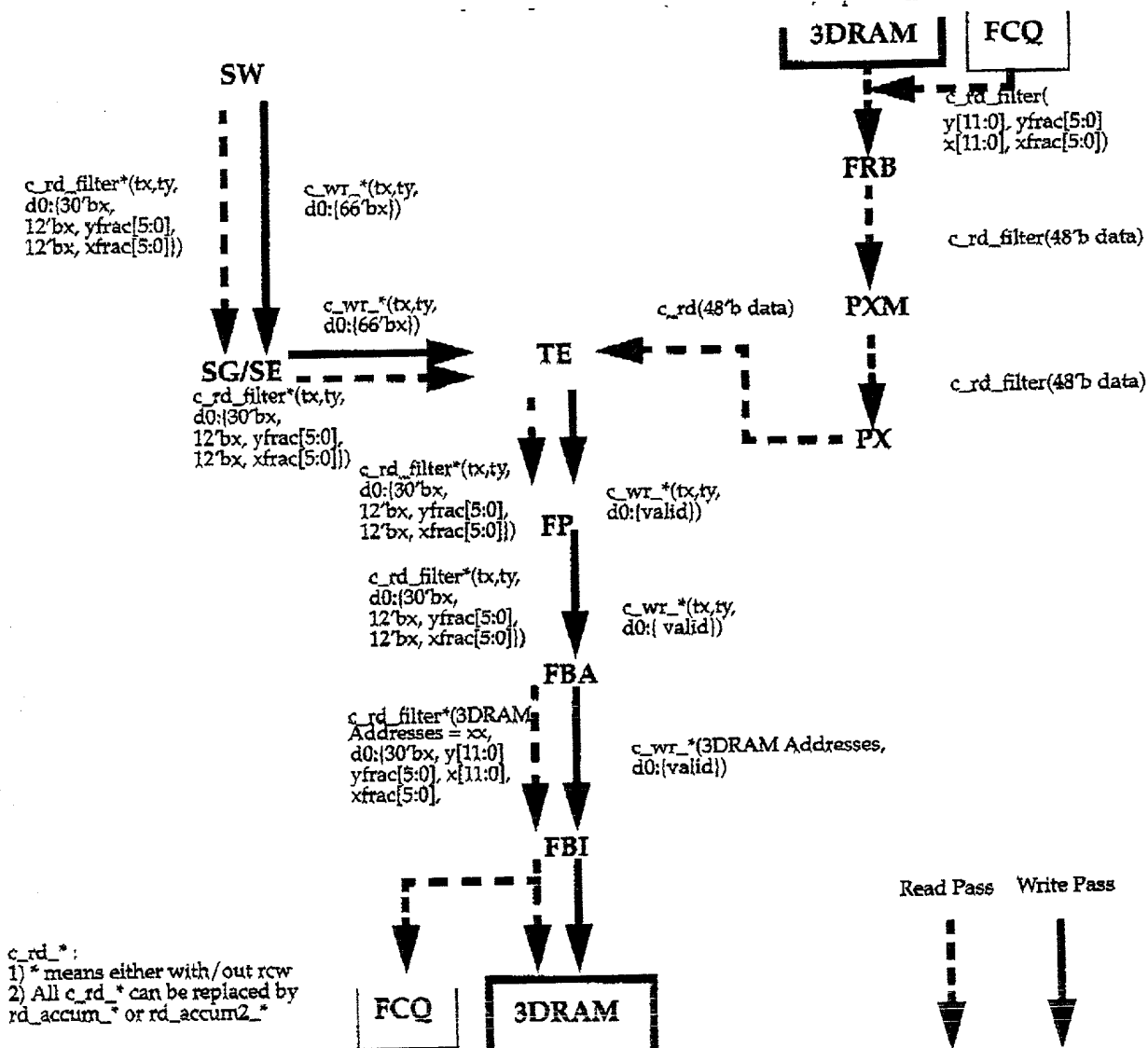


Fig 37